

AMENDMENT TO THE CLAIMS

The listing of claims replaces all previous listing of claims.

1. (Previously presented) An alloy steel in weight percentage consisting of from about 0.16% to about 0.35% carbon, about 0.85% maximum manganese, an amount of silicon up to about 1.25% maximum, about 1.50% to about 3.25% chromium, about 5.00% maximum nickel, about 0.55% maximum molybdenum, 1.17% to about 3.25% tungsten, about 0.05% to about 0.30% vanadium, about 0.50% maximum copper, about 0.015% maximum phosphorous, about 0.012% maximum sulfur, about 0.02% maximum calcium, about 0.14% maximum nitrogen, about 0.05% maximum aluminum, and balance consisting essentially of iron, wherein said alloy steel has an ultimate tensile strength level of 233-270 ksi, Charpy V-notch impact strength of 20-43 ft-lb at -40°F and a ductility low rate strain-to-failure of 16.6 to about 18.4%.
2. (Previously presented) An alloy steel in weight percentage consisting of about 0.28% carbon, about 0.74% manganese, about 0.012% phosphorus, about 0.003% sulfur, about 1.03% nickel, about 2.75% chromium, about 0.011% aluminum, about 1.17% tungsten, about 1% silicon, about 0.36% molybdenum, about 0.0073% nitrogen, about 0.06% vanadium, about 0.1% copper, about 0.02% calcium, and balance essentially iron, wherein said alloy steel has an ultimate tensile strength level of 233-270 ksi and Charpy V-notch impact strength of 20-43 ft-lb at -40°F.
3. - 20. Canceled
21. (Original) A bomb casing material comprising the alloy steel in weight percentage as in claim 1.
22. (Original) A bomb casing material comprising the alloy steel in weight percentage as in claim 2.
23. Canceled.

24. (Previously presented) An alloy steel in weight percentage consisting of about 0.28% carbon, an amount of manganese up to about 0.85% maximum, about 1.00% silicon, about 1.50% to about 3.25% chromium, about 1.03% nickel, an amount of molybdenum up to about 0.55% maximum, about 1.17% tungsten, about 0.05% to about 0.30% vanadium, an amount of copper up to about 0.50% maximum, an amount of phosphorous up to about 0.015% maximum, an amount of sulfur up to about 0.012% maximum, about 0.02% calcium, an amount of nitrogen up to about 0.14% maximum, an amount of aluminum up to about 0.05% maximum, and balance consisting of iron, wherein said alloy steel has an ultimate tensile strength level of about 233-270 ksi and Charpy V-notch impact strength of about 20-43 ft-lb at -40°F.

25. Canceled.

26. (Previously presented) A bomb casing material comprising the alloy steel in weight percentage as in claim 24.

27.-28 Canceled.

29. (Previously presented) The alloy steel recited in claim 2 wherein said steel has an ultimate tensile strength level of about 247 ksi.

30. Canceled.

31. (Previously presented) The alloy steel recited in claim 24 wherein said steel has an ultimate tensile strength level of about 247 ksi.

32. (Previously presented) The alloy steel recited in claim 1 wherein said steel has an ultimate tensile strength level of about 244 ksi.

33. (Previously presented) The alloy steel recited in claim 1 wherein said steel has an ultimate tensile strength level of 234 ksi.

34. (Previously presented) The alloy steel recited in claim 1 wherein said steel has

an ultimate tensile strength level of about 270 ksi.

35. (Previously presented) The alloy steel recited in claim 1 wherein said steel has an ultimate tensile strength level of about 248 ksi.

36. Canceled.

37. (Previously presented) The alloy steel recited in claim 24 wherein said steel has a ductility low rate strain-to-failure of 16.6 to about 18.4%.

38. Canceled.

39. (Previously presented) An alloy steel in weight percentage consisting of about 0.28% carbon, about 0.74% manganese, about 0.012% phosphorus, about 0.003% sulfur, about 1.03% nickel, about 2.75% chromium, about 0.011% aluminum, about 1.17% tungsten, about 1% silicon, about 0.36% molybdenum, about 0.0073% nitrogen, about 0.06% vanadium, about 0.1% copper, about 0.02% calcium, and balance essentially iron, wherein said alloy steel has an ultimate tensile strength level of about 244-270 ksi and Charpy V-notch impact strength of about 20-43 ft-lb at -40°F.

40. (New) An alloy steel in weight percentage consisting of from about 0.16% to about 0.35% carbon, about 0.85% maximum manganese, an amount of silicon up to about 1.25% maximum, about 1.50% to about 3.25% chromium, about 5.00% maximum nickel, about 0.55% maximum molybdenum, about 0.70% to about 3.25% tungsten, about 0.05% to about 0.30% vanadium, about 0.50% maximum copper, about 0.015% maximum phosphorous, about 0.012% maximum sulfur, about 0.02% maximum calcium, about 0.14% maximum nitrogen, about 0.05% maximum aluminum, and balance consisting essentially iron, wherein said alloy steel has an ultimate tensile strength level of 233-270 ksi, Charpy V-notch impact strength of 20-43 ft-lb at -40°F and a ductility low rate strain to failure of 16.6 to 18.4%.

41. (New) A bomb casing material comprising the alloy steel in weight percentage as in claim 40.